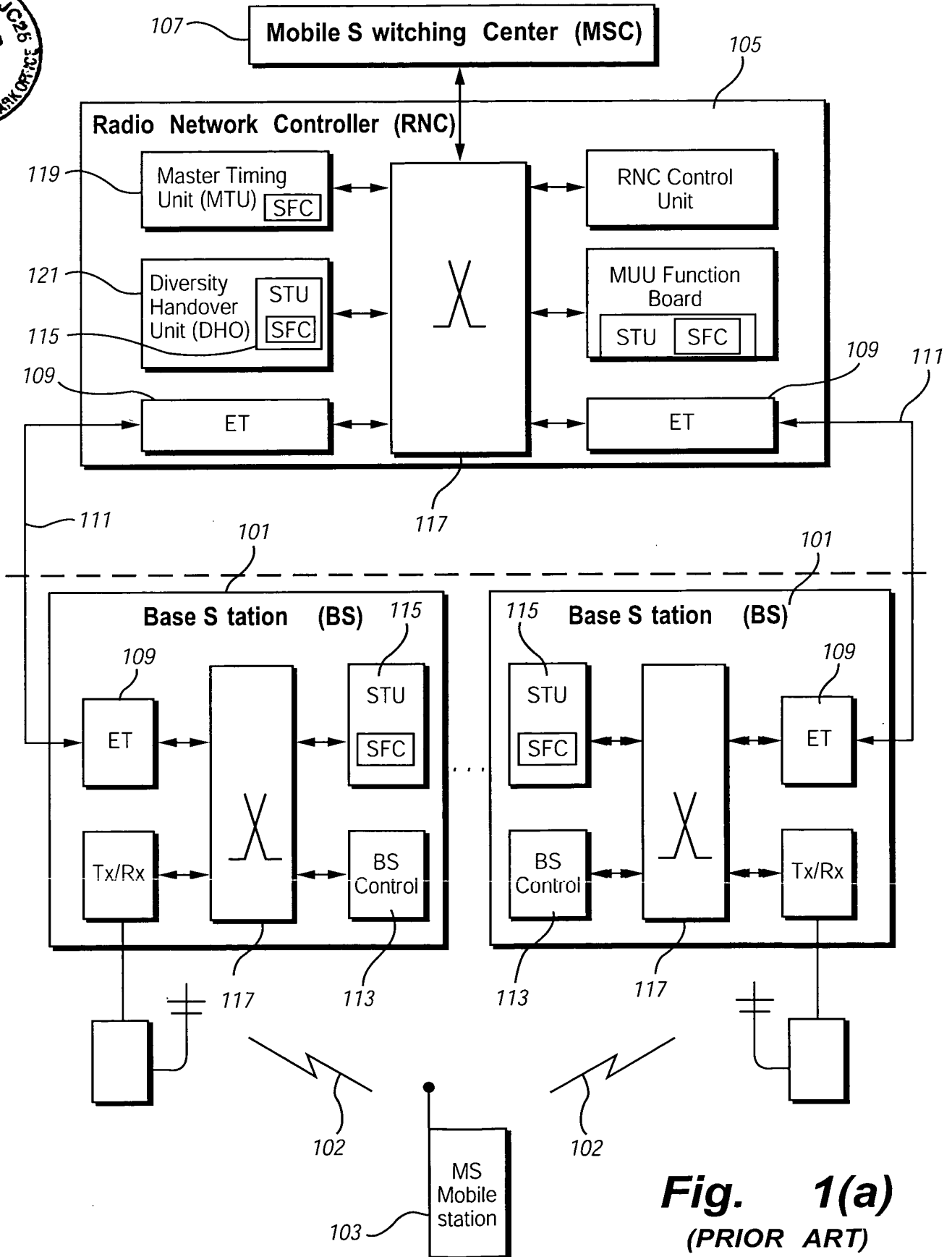
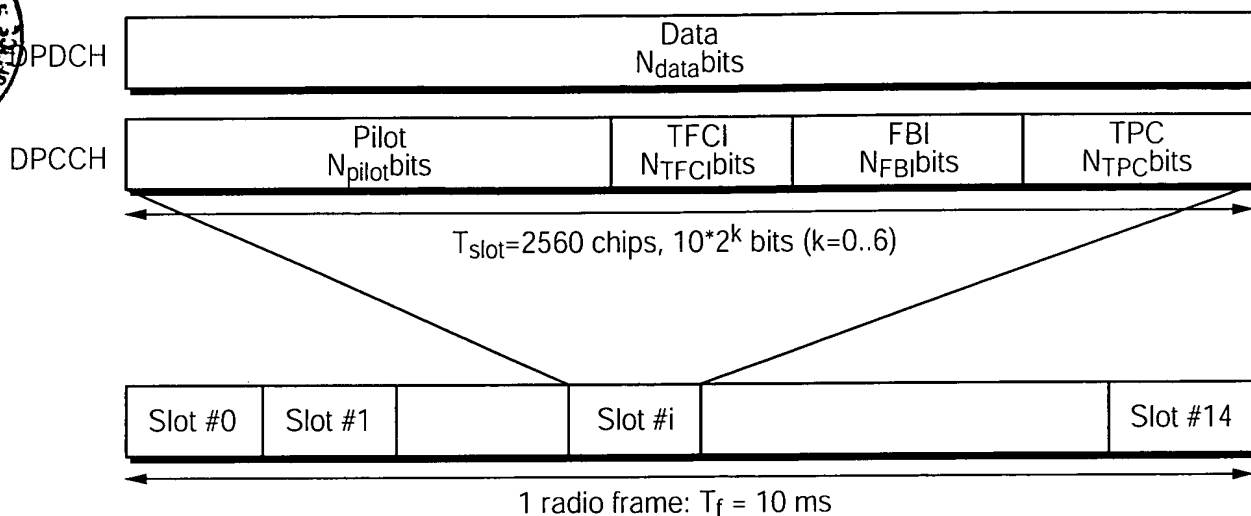


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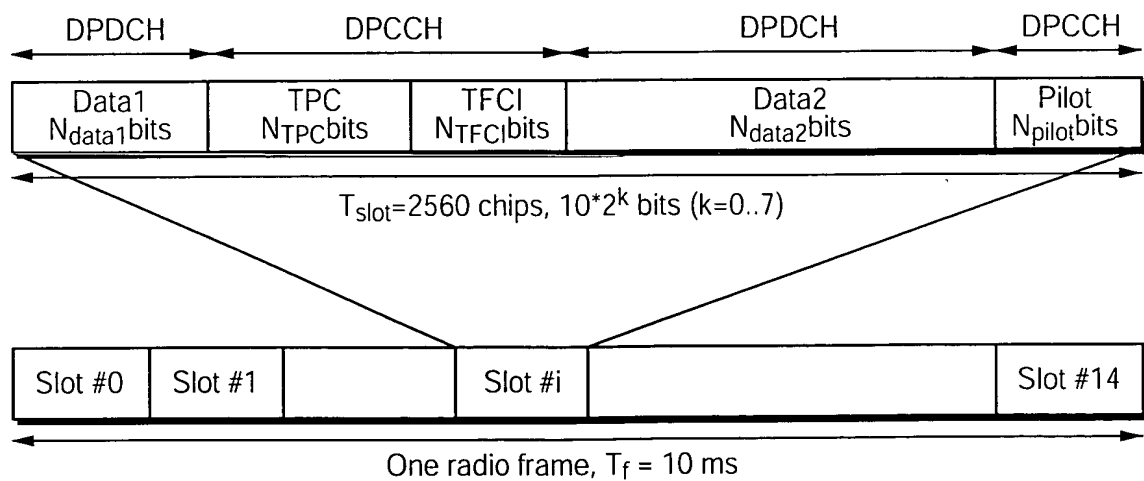


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Frame structure for uplink DPDCH/DPCCH

Fig. 1(b)
 (PRIOR ART)



Frame structure for downlink DPCH

Fig. 2
 (PRIOR ART)

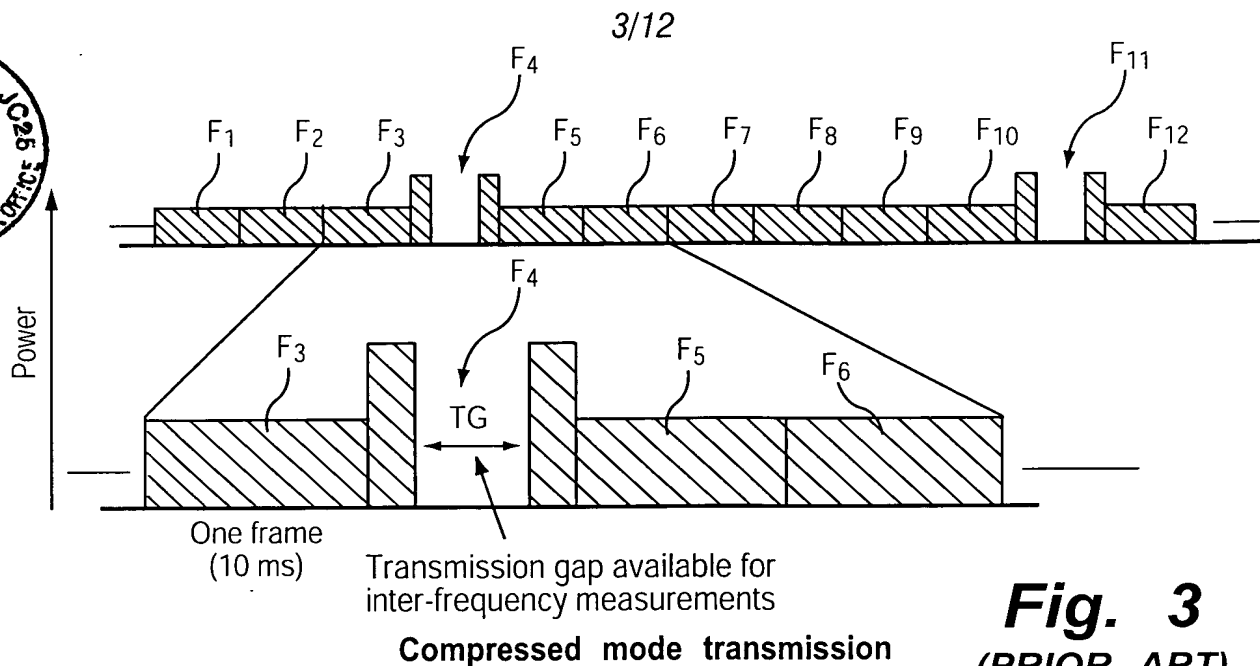
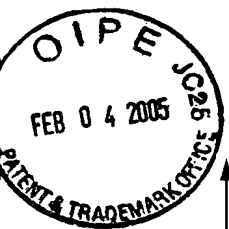
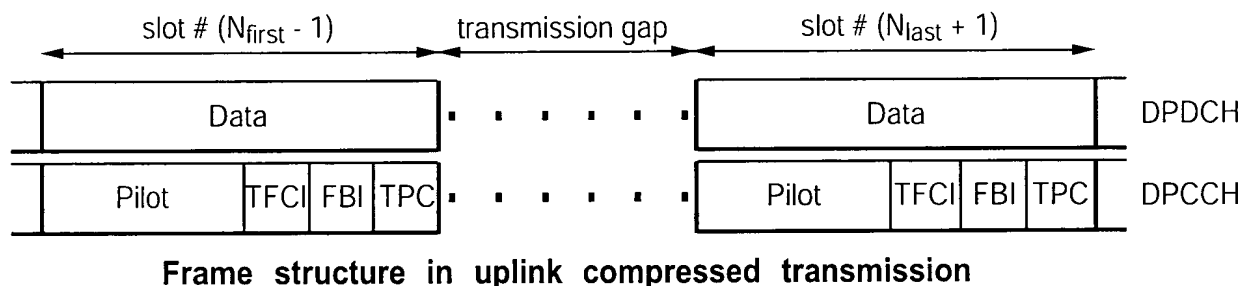
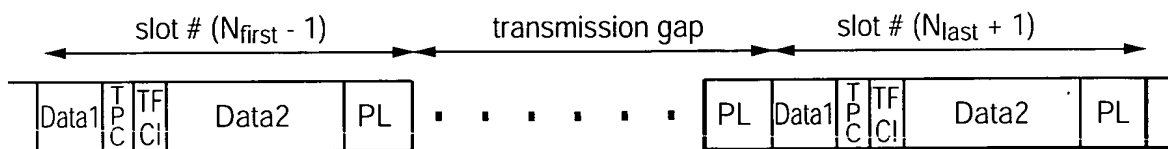


Fig. 3
(PRIOR ART)



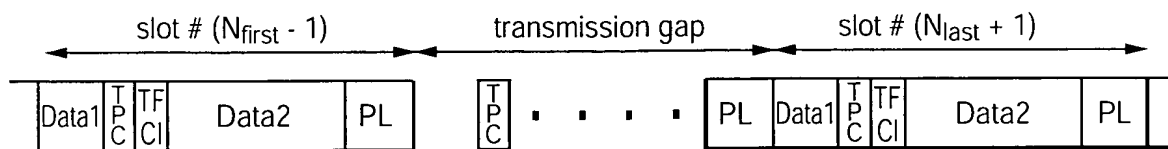
Frame structure in uplink compressed transmission

Fig. 4
(PRIOR ART)



(a) F frame structure type A

Fig. 5(a)
(PRIOR ART)



(d) Frame structure type B

Frame structure types in downlink compressed transmission

Fig. 5(b) (PRIOR ART)

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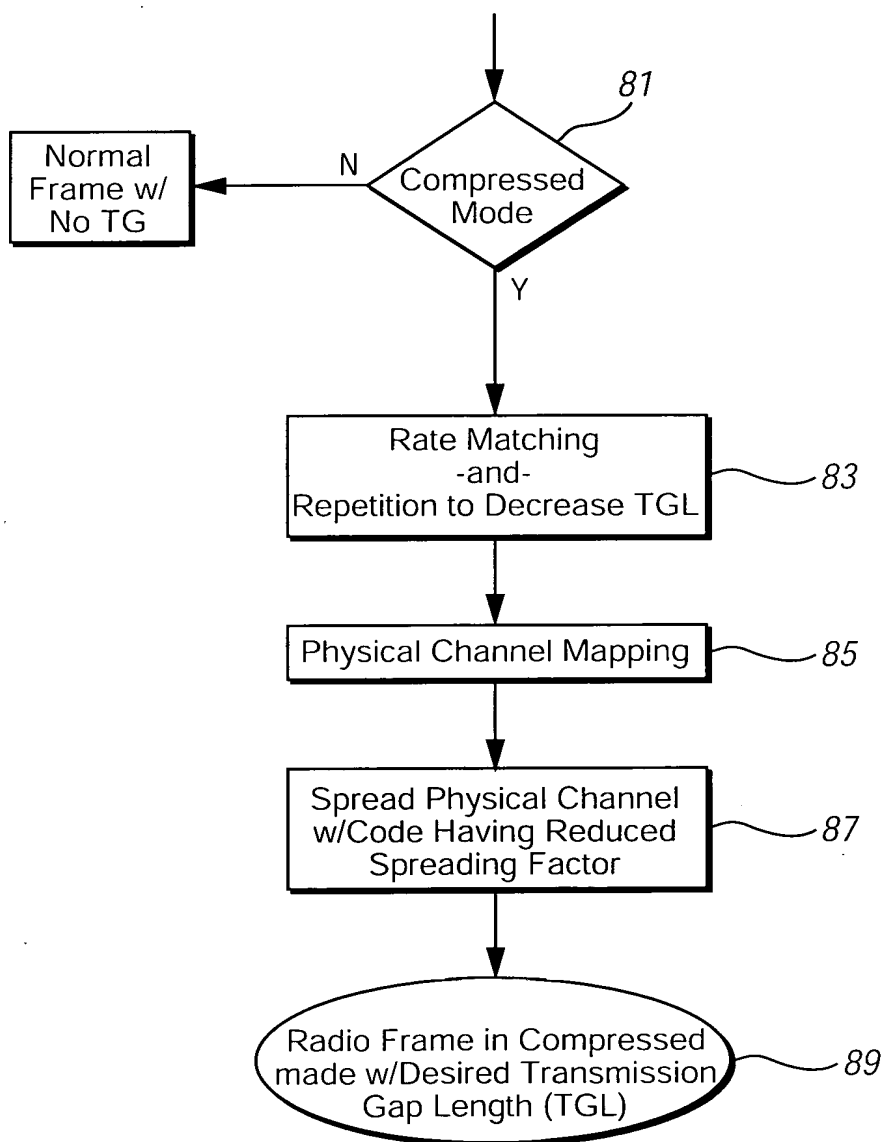
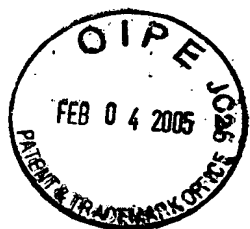


Fig. 6



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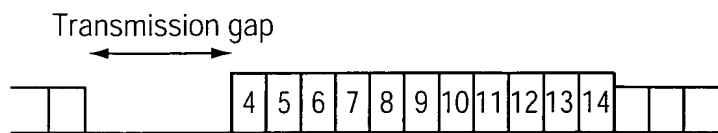


Fig. 7

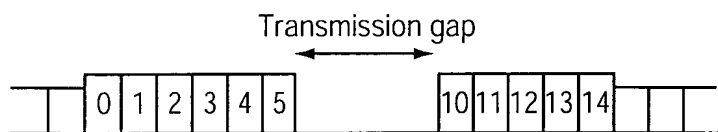


Fig. 8(a)

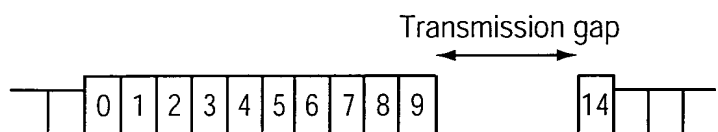


Fig. 9

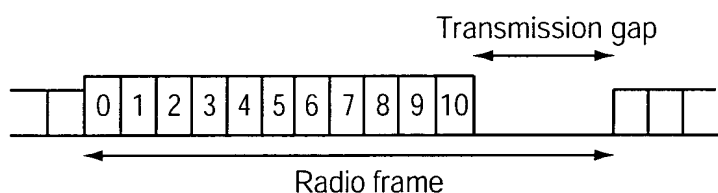


Fig. 10

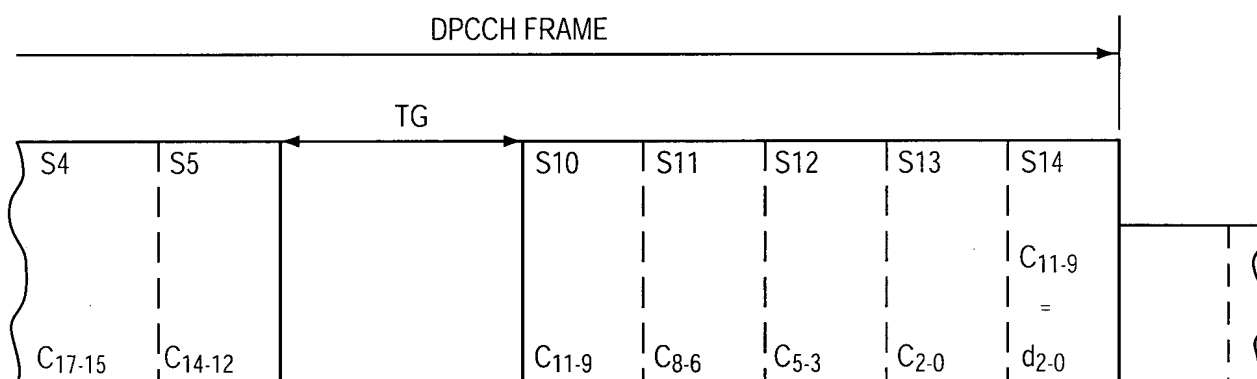


Fig. 8(b)

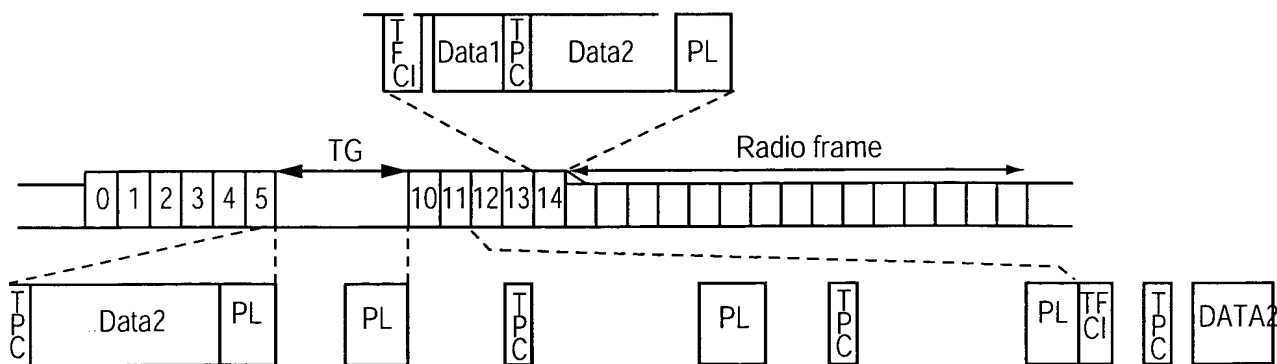


Fig. 11



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Fig. 12

Table 2: DPCCH fields

Slot Format #i	Channel Bit Rate (kbps)	Channel Symbol Rate (ksps)	SF	Bits/ Frame	Bits/ Slot	N _{pil} ot	N _{TP} c	N _{TF} ci	N _{FB} i	Trans- mitted slots per radio frame
0	15	15	256	150	10	6	2	2	0	15
0A	15	15	256	150	10	5	2	3	0	10-14
0B	15	15	256	150	10	4	2	4	0	8-9
1	15	15	256	150	10	8	2	0	0	8-15
2	15	15	256	150	10	5	2	2	1	15
2A	15	15	256	150	10	4	2	3	1	10-14
2B	15	15	256	150	10	3	2	4	1	8-9
3	15	15	256	150	10	7	2	0	1	8-15
4	15	15	256	150	10	6	2	0	2	8-15
5	15	15	256	150	10	5	1	2	2	15
5A	15	15	256	150	10	4	1	3	2	10-14
5B	15	15	256	150	10	3	1	4	2	8-9

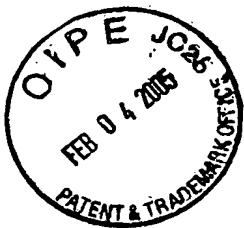


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Table 3: Parameters for different TGLs in compressed mode

TGL	Type	Adjustable /fixed gap position	Spreading Factor	Idle length[ms]	Transmission time Reduction method	Idle frame Combining
3	A	Adjustable Or Fixed	512 - 4	1.73-1.99	Puncturing Spreading factor reduction by 2 Higher layer scheduling	(S) (D) = (1,2),(2,1)
	B		256- 4	1.60-1.86		
4	A		512 - 4	2.40-2.66		(S) (D) = (1,3),(2,2),(3,1)
	B		256- 4	2.27-2.53		
7	A		512 - 4	4.40-4.66		(S) (D) = (1,6),(2,5),(3,4),(4,3),(5, 2),(6,1)
	B		256- 4	4.27-4.53		
10	A		512 - 4	6.40-6.66		(D) = (3,7),(4,6),(5,5),(6,4),(7, 3)
	B		256- 4	6.27-6.53		
14	A	Fixed	512 - 4	9.07-9.33		(D) = (7,7)
	B		256- 4	8.93-9.19		

Fig. 13(a)

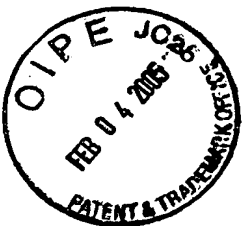


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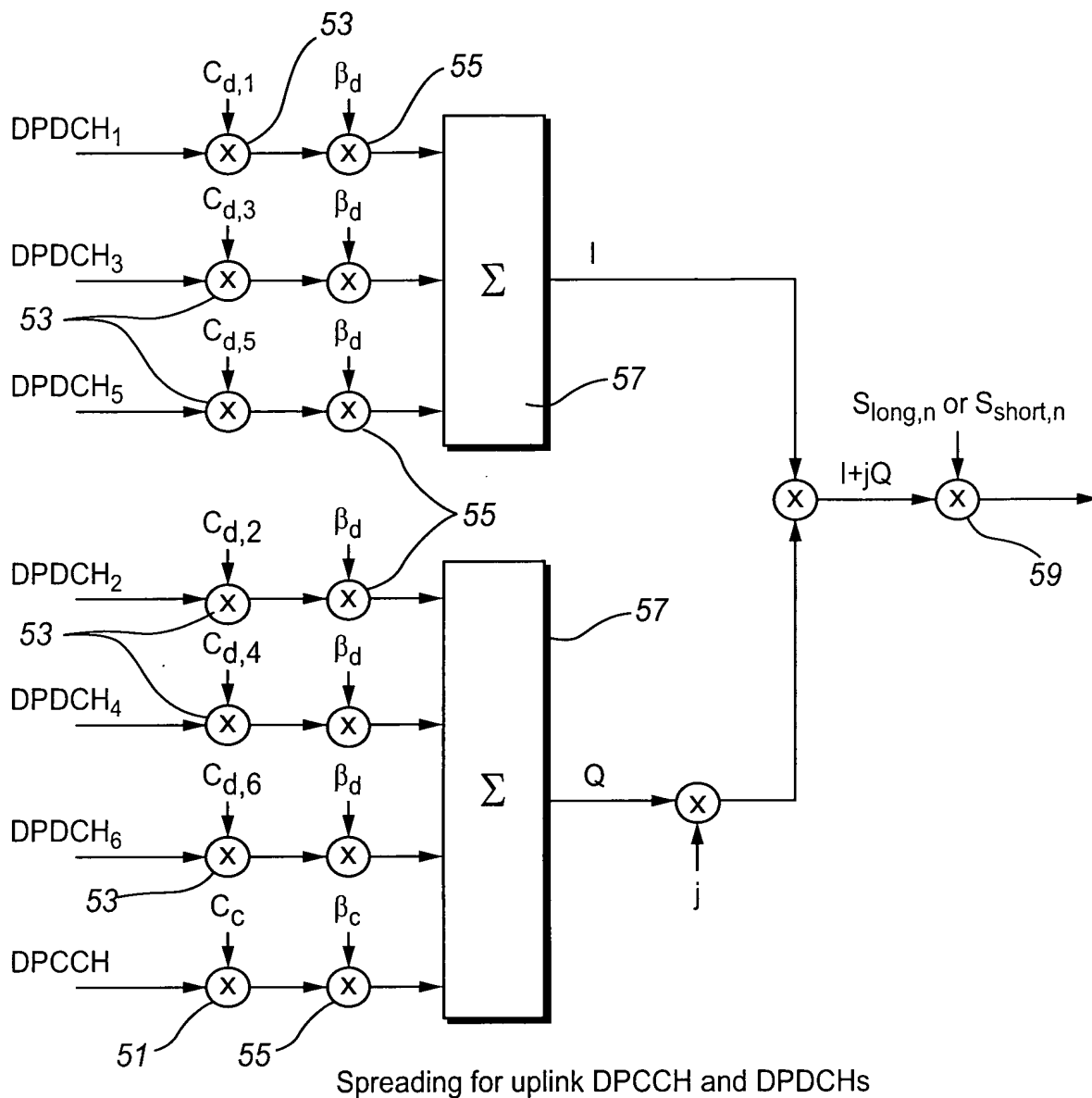
Table 3: Parameters for different TGLs in compressed mode

TGL	Type	Adjustable /fixed gap position	Spreading Factor	Idle length[ms]	Transmission time Reduction method	Idle frame Combining
3	A	Adjustable Or Fixed	512 - 4	1.73-1.99	Puncturing Spreading factor reduction by 2 Higher layer scheduling	(S) (D) = (1,2),(2,1)
	B		256- 4	1.60-1.86		
4	A		512 - 4	2.40-2.66		(S) (D) = (1,3),(2,2),(3,1)
	B		256- 4	2.27-2.53		
7	A		512 - 4	4.40-4.66		(S) (D) = (1,6),(2,5),(3,4),(4,3),(5, 2),(6,1)
	B		256- 4	4.27-4.53		
10	A		512 - 4	6.40-6.66		(D) = (3,7),(4,6),(5,5),(6,4),(7, 3)
	B		256- 4	6.27-6.53		
14	A	Fixed	512 - 4	9.07-9.33		(D) = (7,7)
	B		256- 4	8.93-9.19		

Fig. 13(b)

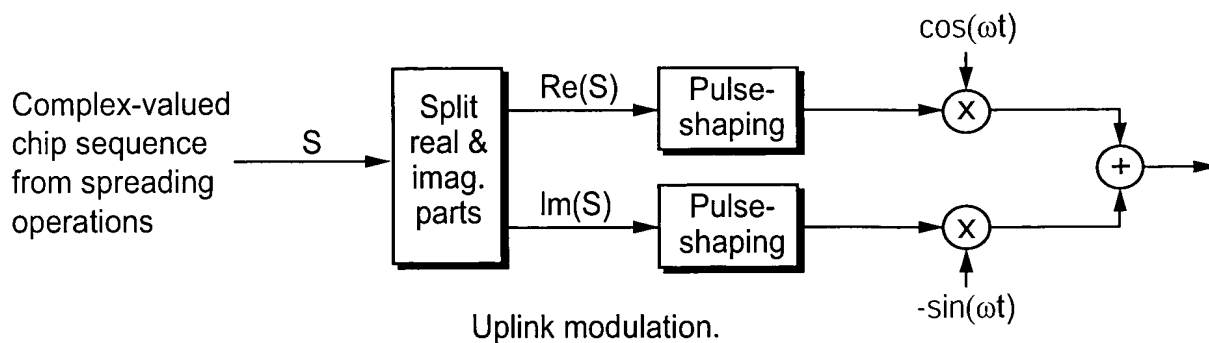


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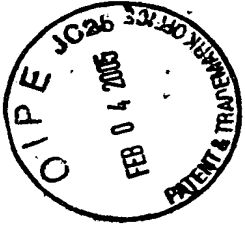
Spreading for uplink DPCCH and DPDCHs

Fig. 14

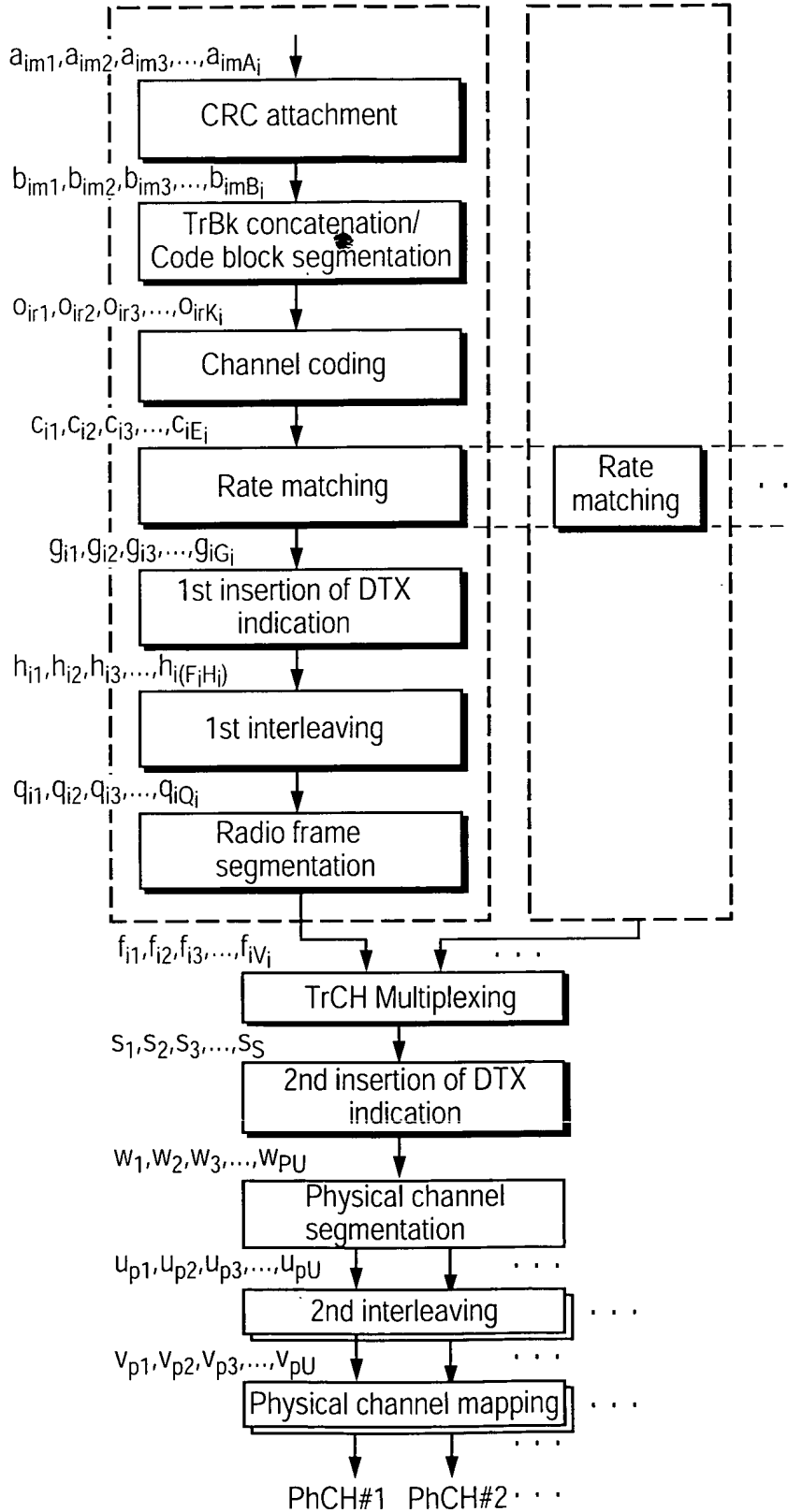


Uplink modulation.

Fig. 15



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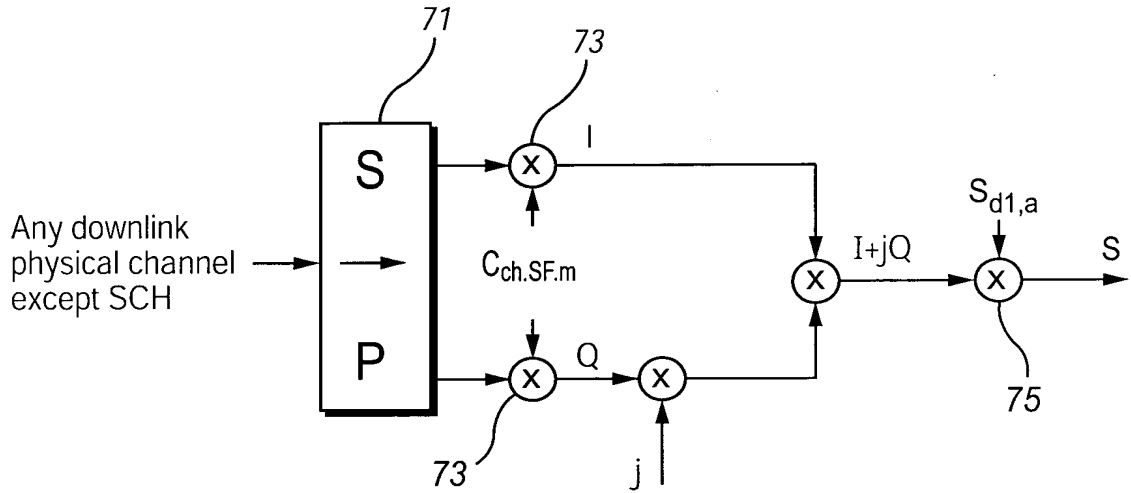


Transport channel multiplexing structure for downlink

Fig. 16

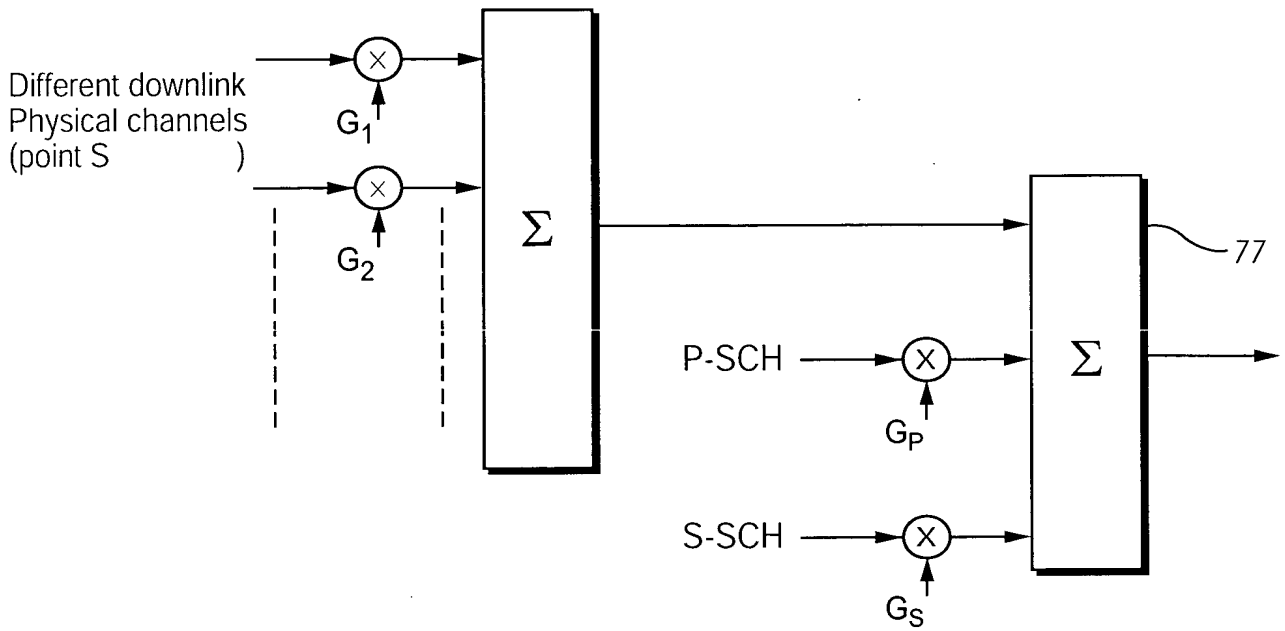


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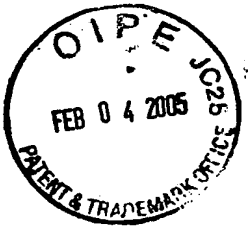
Spreading for all downlink physical channels except SCH

Fig. 17



Spreading and modulation for SCH and P-CCPCH

Fig. 18



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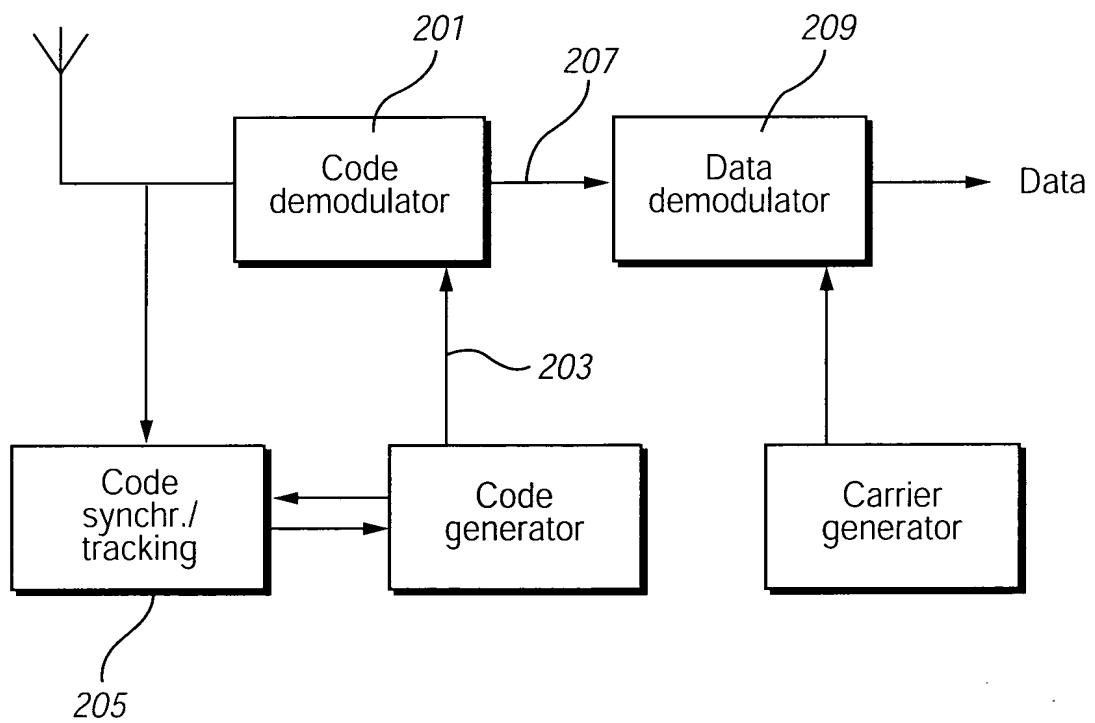


Fig. 19